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TRIGGERING OF SCREENSHOTS AS WELL AS VIDEO AND SOUND RECORDINGS VIA THE MULTIFUNCTION STEERING WHEEL

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TRIGGERING OF SCREENSHOTS AS WELL AS VIDEO AND SOUND RECORDINGS VIA THE MULTIFUNCTION STEERING WHEEL

Technical task:

Triggering of screenshots and video recordings of the screen contents of the vehicle infotainment system as well as triggering of audio recordings of the vehicle microphones via the multifunction steering wheel.

Initial situation:

Currently, digital cameras, mobile phones, voice recorders and laptops are being used to record video, image and sound messages in order to test infotainment systems and later to document the observed facts (e.g. day, time, use case, important steps). Since the most common application is during a test drive and you are forced to reach for your mobile phone or for your digital camera, you can no longer concentrate on the road traffic for this period of time and thus turn your gaze away from the road. This puts yourself and other road users at risk.

Solution:

Image and video recording:

To avoid using your mobile phone or digital camera during a test drive, an image or video can be recorded by a single frame or a sequence of images using the multifunction steering wheel key. The command to record an image from the screen display is to be given via a button already present on the steering wheel, e.g. a "Joker" button. A single image is to be recorded by pressing this button once. With "long press", a sequence of images is to be recorded until the button is released.

Audio recording:

A "voice record" web app can be installed on the central computer for recording messages and notes, which then makes it possible to record a new note by voice input. Selecting or starting the "voice record" web app via an operating function then triggers a voice input channel to record the message.

Advantages:

- Simplifies and accelerates the recording of error cases
- Increased safety for all road users, including test drivers and passengers, by reducing distractions from road traffic
- These features can help you save money on new purchases for recording picture, video and voice messages
- The recordings can be synchronized with the technical logs, which facilitates error analysis, since video and audio can be synchronized exactly (to the millisecond) with the log

Possible application:

Existing hardware can be used for the technical implementation. An existing key can be used for the control of image and video recording via the multifunction steering wheel button. When the button is pressed, a signal is placed on the bus which records the current display content and stores it on the central computer.

Since most vehicles already have voice recognition and can be used to record notes, only the web app "voice record" is needed. A voice file or a text file including time stamp is created and stored on the central computer.

A "Joker" button is preferable for this, since this button is intended to be assigned various functions.

